

Interactive Catalog Replaces Catalog Pages

Honeywell Sensing and Control has replaced the PDF product catalog with the new **Interactive Catalog**. The **Interactive Catalog** is a power search tool that makes it easier to find product information. It includes more installation, application, and technical information than ever before.



**Click this icon to try the new
Interactive Catalog.**

Sensing and Control

Honeywell Inc.

11 West Spring Street

Freeport, Illinois 61032



Pressure Sensors

Monolithic Signal Conditioned

4000PC Series



FEATURES

- Operating temperature range – -45° to $+125^{\circ}\text{C}$ (-49° to $+257^{\circ}\text{F}$)
- Monolithic design
- Compatible with media from dry air and water to refrigerant coolants and engine fuels
- 0.2% accuracy
- Rugged stainless steel and brass construction

PERFORMANCE CHARACTERISTICS

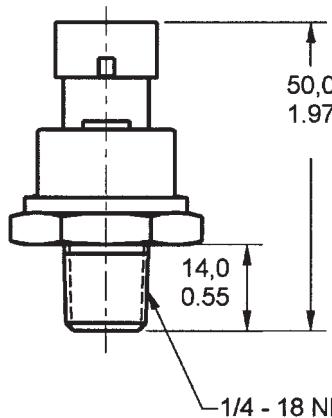
Pressure Range	$\pm 50 \text{ mm Hg}$	0-15 psi	0-100 psi	0-150 psi	0-250 psi
Overpressure, max.	$\pm 170 \text{ mm Hg}$	45 psi	200 psi	300 psi	500 psi
Supply Voltage		5 VDC ± 0.25			
Supply Current		10 mA max.			
Output Source Current		0.5 mA max.			
Output Sink Current		1.0 mA max.			
Operating Temperature		-45° to $+125^{\circ}\text{C}$ (-49° to $+257^{\circ}\text{F}$)			
Storage Temperature		-55° to $+125^{\circ}\text{C}$ (-67° to $+257^{\circ}\text{F}$)			
Hysteresis & Repeatability		0.15% Span, Typ.			
Ratiometricity (at 4.75 to 5.25 Supply Voltage)		$\pm 0.25\%$ Span, Typ.			
Output Load Capacitance		0.05 microfarads, max.			
Full Scale					
	-50 mm Hg	0.50 VDC Typ.			
	$+50 \text{ mm Hg}$	$4.50 \pm 0.12 \text{ VDC Typ.}$			
	All other pressure ranges	4.50 VDC Typ.			
Media Compatibility	Media must be compatible with fluorosilicone, fluorocarbon, glass, silicon, stainless steel, invar, Sn/Ni plating or Sn/Ag solder				

4000PC SERIES ORDER GUIDE

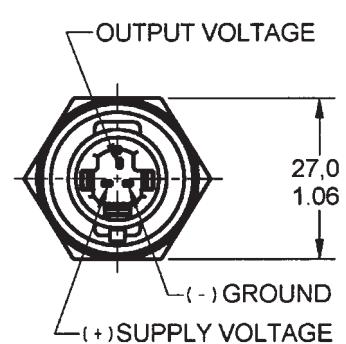
Catalog Listing	Gage Pressure Range	Termination
4040PC001B4D	$\pm 50 \text{ mm Hg}$	Packard Connector
4040PC001B5D	$\pm 50 \text{ mm Hg}$	Connector with Leadwires
4040PC015G4D	0 to 15 psi	Packard Connector
4040PC015G5D	0 to 15 psi	Connector with Leadwires
4040PC100G4D	0 to 100 psi	Packard Connector
4040PC100G5D	0 to 100 psi	Connector with Leadwires
4040PC150G4D	0 to 150 psi	Packard Connector
4040PC150G5D	0 to 150 psi	Connector with Leadwires
4040PC250G4D	0 to 250 psi	Packard Connector
4040PC250G5D	0 to 250 psi	Connector with Leadwires

MOUNTING DIMENSIONS

(for reference only)



ELECTRICAL CONNECTIONS



Leadwire Color Code

RED – Supply Voltage (+)
BLACK – Ground (-)
GREEN – Output

NOTE:

Output is short circuit protected.

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OUTPUT PERFORMANCE CHARACTERISTICS @ 25°C, 5VDC (unless otherwise noted)

Pressure Range	Null (VDC)	Span (VDC)	Sensitivity, Typ.	Linearity, B.F.S.L. (% Span) Max.	Null Shift (% Span) Max.	Span Shift (% Span) Max.	Combined Null and Span Shift (% Span) Max.	
±50 mm Hg	2.50 ± 0.050	4.00 Typ.	40.0 mV/mm Hg	0.80	+25° to +50°C +25° to 0°C +25° to -18°C +25° to +63°C +25° to -45°C +25° to +85°C +25° to +125°C	±1.50 ±1.50 ±2.00 ±2.00 ±2.75 ±2.75 —	±1.50 ±1.50 ±0.75 ±0.75 ±1.00 ±1.00 —	— — ±2.00 ±2.00 ±3.00 ±3.00 —
0 to 15 psi	0.50 ± 0.11	4.00 ± 0.11	266.6 mV/psi	0.20	+25° to -45°C +25° to +85°C +25° to +125°C	±2.75 ±2.75 —	±1.00 ±1.00 —	±3.00 ±3.00 —
0 to 100 psi	0.50 ± 0.04	4.00 ± 0.09	40.0 mV/psi	0.10	+25° to -18°C +25° to +63°C +25° to -45°C +25° to +85°C +25° to +125°C	±1.25 ±1.25 ±2.00 ±2.00 ±3.00	±0.75 ±0.75 ±1.00 ±1.00 ±2.00	±1.50 ±1.50 ±2.50 ±2.50 ±3.00
0 to 150 psi	0.50 ± 0.04	4.00 ± 0.07	26.6 mV/psi	0.10	+25° to -18°C +25° to +63°C +25° to -45°C +25° to +85°C +25° to +125°C	±0.75 ±0.75 ±1.00 ±1.00 ±1.50	±0.75 ±0.75 ±1.00 ±1.00 ±1.50	±0.75 ±0.75 ±1.00 ±1.00 ±1.50
0 to 250 psi	0.50 ± 0.04	4.00 ± 0.07	16.0 mV/psi	0.10	+25° to -18°C +25° to +63°C +25° to -45°C +25° to +85°C +25° to +125°C	±0.75 ±0.75 ±1.00 ±1.00 ±2.00	±0.75 ±0.75 ±1.00 ±1.00 ±2.00	±0.75 ±0.75 ±1.00 ±1.00 ±3.00

Amplified

PERFORMANCE SPECIFICATIONS, TEMPERATURE/ACCURACY

Temperature Range	Total Accuracy (% Span) Max.			
	0 to 15 psi	0 to 100 psi	0 to 150 psi	0 to 250 psi
25°C	±0.4 (RSS)	±0.2 (RSS)	±0.2 (RSS)	±0.2 (RSS)
-18° to +63°C	±4.0	±2.5	±2.0	±2.0
-45° to +85°C	±4.0	±2.5	±2.0	±2.0
-45° to +125°C	±3.0	±2.5	±3.0	—

Note 1: Accuracy at 25°C is defined as RSS error for linearity, hysteresis, and repeatability.

Note 2: Total accuracy is the maximum deviation from the 25°C reference transfer function at any pressure or temperature over the specified ranges. This calculation includes null, span, linearity, hysteresis, repeatability, null shift, and span shift.

PC-15191 4000PC CONNECTOR HARNESS (for reference only)

